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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09.916,920	07-26/2001	Charles D. Hoke	10004249-1	8772
75	90 05.20-2003			
AGILENT TECHNOLOGIES Legal Department, 51U-PD Intellectual Property Administration			EXAMINER	
			SIMKOVIC, VIKTOR	
P.O. Box 58043 Santa Clara, CA 95052-8043			ART UNIT	PAPER NUMBER
guina e iara, e i			2812	

DATE MAILED: 05/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/916,920	HOKE, CHARLES D.				
		Examiner	Art Unit				
		Viktor Simkovic	2812				
	The MAILING DATE of this communication app	pears on the cover sheet with	the correspondence address				
Period fo	• •	/ 10 057 TO EVENE - 1401					
THE N - Exten after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute exply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133)				
1)	Responsive to communication(s) filed on <u>05 M</u>	March 2003					
-, 2a)□		is action is non-final.					
3)	Since this application is in condition for allowa		rs prosecution as to the merits is				
,—	closed in accordance with the practice under on of Claims						
4)	Claim(s) 1032 is/are pending in the application	٦.					
4	4a) Of the above claim(s) <u>21-32</u> is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊡	· Claim(s) <u>1-20</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or	r election requirement.					
Application	on Papers						
9) 🔲 7	The specification is objected to by the Examine	r.					
10)∏ Т	he drawing(s) filed on is/are: a)□ accep	oted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
	The oath or declaration is objected to by the Exa	aminer.					
	nder 35 U.S.C. §§ 119 and 120						
	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
	All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	 Copies of the certified copies of the prior application from the International Bur ee the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	Č				
14) 🗌 A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 1	119(e) (to a provisional application).				
	☐ The translation of the foreign language pro cknowledgment is made of a claim for domesti	, ,					
Attachment	_	. ,					
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u>	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				

Application/Control Number: 09/916,920

Art Unit: 2812

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3, 6-7, and 11-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsumoto et al. ('739). Matsumoto et al. teach a tunable Fabry-Perot filter comprising: a pair of opposed, at least partially reflective surfaces defining an optical cavity; and a nano-dispersion of liquid crystals disposed in said cavity.

See abstract, as well as Fig. 3A.

With regard to claims 3 and 6, the liquid crystals are dispersed in an irregular array of spherical holes (see Fig. 3A). With regard to claim 7, Matsumoto et al. state that the holes are less than 150 nm in diameter. With regard to claim 11, the liquid crystal is in droplet form of a size that is less than the optical wavelengths to be passed through. With regard to claims 12-13, electric means is provided to vary the optical wavelengths which are passable by the filter.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 4-5, 8-10, and 14-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto et al. in view of Kitamura et al. While Matsumoto et al. does not specifically mention that the matrix can be a metal oxide glass, such a material is taught by Kitamura et al. (see abstract) for a similar LCD type device. It would have been obvious to one of ordinary skill in the art at the time of the invention to use such a metal oxide, for as Matsumoto et al state, any stable transparent material, such as glass, can be used for the matrix. Furthermore, Kitamura et al. explain that metal oxides provide high contrast, bright area, and high reliability. With regard to claims 4-5 and 17, Kitamura et al. teach the specified metal oxides (col 3. line 42). With regard to claims 8-10 and 16, Kitamura et al. teach the specified volume ratios (col 6., line 13). With regard to claims 16 and 18-20, see comments made above regarding claims 7 and 11-13.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viktor Simkovic whose telephone number is 703-308-6170. The examiner can normally be reached on Mon - Fri, 9:00 - 6:00, except every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 703-308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

Viktor Simkovic May 14, 2003 gully